

## SDC™ Composite Bushing - 46kV

By Electro Composites  
Catalog # 250-012-T-780-01

SDC™ 46kV-1200 A Instrument Transformer Condenser Bushing, Solid-Dielectric-Capacitor Type, Rated per IEEE C57.19.01, Bottom Connected for Air-to-Oil Applications, 6" Min. Oil Immersion Level/CT Pocket Length, 54.1" Min. Creepage Length



\*Representative Image

### Features

- SDC™ - Solid Dielectric Capacitance Graded Composite Construction
- EC-APG-02 Cycloaliphatic Epoxy Compound for Optimal Performance
- Meets IEEE C57.19.01 Electrical and Mechanical Requirements
- Can be mounted vertically or horizontally

### Application

Instrument Transformer

### General

Bottom Terminal Type	1x Blade with 2x 0.56 Dia Holes
Color	Gray
Immersion Type - Above Flange	Air
Immersion Type - Below Flange	Oil
Material - Flange	Epoxy
Material - Insulation	APG-02 - Cycloaliphatic Epoxy
Mounting Position	Vertical to Horizontal
Number of Bolt Holes - Bottom Terminal	2
Number of Flange Mounting Holes	4
Plating - Bottom Terminal	None
Test Tap	No
Top Terminal Plating	None
Top Terminal Type	1-14
Type	Condenser Bushings

### Dimensions

Above Flange Length	21.54 in
Below Flange Length	13.38 in
Diameter - Above Flange Maximum	8.64 in
Diameter - Below Flange Maximum D <gt;/> 1"	4.49 in
Diameter - Below Flange Maximum P	4.49 in
Diameter - Live Part Bottom	1.25 in
Diameter - Live Part Top	2.75 in
Effective Length - Bottom Terminal	3.75 in
Effective Length - Top Terminal	1.50 in
Flange Mounting Hole Bolt Circle	6.50 in
Flange Mounting Hole Diameter	1/2-13
Flange Outside Diameter	8.64 in
Length	34.91 in
Length - Ground Shield	6.00 in
Length - Insulation Above Flange	19.00 in
Length - Insulation Below Flange	3.08 in
Length - Live Part Bottom	4.30 in
Length - Live Part Top	2.30 in
Length - Minimum Oil Immersion Level	6.00 in
Sealing Surface Inside Diameter	4.98 in
Sealing Surface Outside Diameter	7.55 in
Top Terminal Min. Thread Length	1.50 in
Weight	50 lb

### Electrical Ratings

BIL	250 kV
Current Rating	1200 A
Minimum Creepage	54.10 in
Minimum Strike	21.30 in
Withstand Voltage - 60 Hz Dry	105 kV
kV Class	46 kV

## Certifications and Compliance

Industry Standard(s)

IEEE C57.19.01

### Product Assets

[Installation Manuals - SDC™ Bushing General Handling and Maintenance Guide - Electro Composites](#)  
[Literature - Apparatus Bushings Selection Guide \(TD02026E\)](#)  
[Literature - SDC™ GSU Bushings - Electro Composites \(SF02018E\)](#)  
[Literature - SDC™ HV Generator Bushings - Electro Composites \(SF02019E\)](#)  
[Literature - SDC™ HV Bushings - Electro Composites \(SF02017E\)](#)  
[Literature - EC SDC Solid Dielectric Bushings v3](#)  
[Literature - FRENCH V2 - EC Generation Bushings](#)  
[Literature - FRENCH V2 - EC GSU Bushings](#)  
[Literature - How an SDC Bushing Test Tap is Constructed](#)  
[Sales Drawings - 780-01\\_2502-9273](#)  
[Video - ElectroComposites Factory Tour: St. Jerome \(V100124E\)](#)



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